

ABSTRACT OF THE DISCLOSURE

A system, method, and apparatus for duplicate address detection in a communication network includes a plurality of communication nodes and a proxy node. A particular one of the communication nodes generates a tentative interface address and transmits a solicitation message including the tentative interface address to the proxy node. After receiving the solicitation message, the proxy node determines from the solicitation message whether the tentative interface address is allocated to another of the communication nodes. If the proxy node determines that the tentative interface address has been allocated to another communication node, the proxy node sends a response message to the particular communication node.